

DELTA PROTECTION COMMISSION

14215 RIVER ROAD

P.O. BOX 530

WALNUT GROVE, CA 95690

PHONE: (916) 776-2290

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November 8, 1996

To: Delta Protection Commission

From: Margit Aramburu, Executive Director

Subject: Briefing on Phase One of Study of Volume of Material and Costs to Bring Delta Levees to Corps' PL-99 Standard.

Background:

In February, 1996, the Commission directed staff to begin Phase One of a study of the amount of work needed to bring the Delta levees to the Corps' PL-99 standards. This higher level of safety is included in the Commission's adopted Plan.

Phase One work included determining which islands have already prepared such work; the engineering firms that provide engineering services to Delta lands; the status of surveys of Delta island levees; and any other relevant information.

Phase Two work would include study eight to ten islands in detail, including consultant assistance.

Results of Phase One:

All parties contacted have been extremely helpful in providing information. A summary of data developed is attached to this memo.

According to the Corps, two tracts meet PL-99: Holland and Byron (see attached map).

Four islands have prepared studies of upgrading levees to PL-99: Lower Roberts, Lower Jones, Palm, and Orwood (see attached map).

Two more islands propose such studies: Woodward and Upper Jones (see attached map).

The cost of each survey is estimated to cost about \$8,000-\$9,000.

Recommendations of Levee Subcommittee:

The Levee Subcommittee reviewed the staff findings at their meeting in October and recommended that staff forward the findings to Lester Snow at CALFED, seeking support of additional study of this issue by CALFED. The high cost of preparing the island by island estimates for eight to ten island exceeds the Commission's current consultant budget. The Commission inquired into CALFED interest several months ago; there was no interest at that time.

Staff Recommendation:

Based on the recommendation of the Levee Committee, the letter to Lester Snow has been mailed (see attached letter). Staff will wait to receive a response before reporting back to the Levee Subcommittee.

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October 28, 1996

Lester Snow, Director
CALFED
P.O. Box 942836
Sacramento, CA 94236-0001

Subject: Information About Status of Delta Levees

Dear Mr. Snow:

Last spring I contacted the CALFED program about possibly participating in a study of Delta levees and the volume of material and estimated costs of bringing the Delta levees into conformance with the Corps' PL-99 agricultural standard. This standard is recommended by the Delta Protection Commission as the goal for Delta levee height and cross-section.

The staff was directed by the Commission to seek available information from the Reclamation Districts' consultants and governmental agencies about the levees. Attached for your information is the result of the first round of information gathering.

Two tracts meet the Corps' PL-99 standard: Holland and Byron (as per Corps staff, 2/6/96). In addition, four Reclamation Districts have prepared studies of volume and cost of bringing the levees to PL-99 height and cross-section: Lower Jones, Orwood, Palm, and Lower Roberts. Two Reclamation Districts are planning a similar study: Upper Jones and Woodward.

According to an engineer who prepared such a study, the cost is between \$8-\$9,000 per study.

The cost then of preparing additional estimates for any significant number of districts is beyond the consultant budget of the Delta Protection Commission at this time. The Commission asked me to forward this information to you and offer to meet to discuss these findings.

Mr. Lester Snow
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Please let me know if you would like to meet to discuss these matters.

Sincerely,

A handwritten signature in cursive script, reading "Margit Aramburu". The signature is written in dark ink and is positioned above the printed name and title.

Margit Aramburu
Executive Director

Enclosures

cc: Steve Yeager, CALFED
Curt Schmutte, DWR
Chairman Patrick McCarty

NAME	RD #	ENG	DATE OF INTERVAL IN LAST SURVEY	FEET	PAPER/ COMPUTER	MEET HMP	CORPS DATABASE	AREA (ac)	PROJECT	NON-PROJECT	DIRECT
									LEVEES (in miles)	LEVEES (in miles)	AGREEMENT LEVEES (in miles)
Andrus, Upper	556	Miller						2450	11.2	0.5	-
Bacon	2028	MBK	1/96	1000	C	No	16	5625	-	14.3	-
Boulder	756	MBK				No	8	6006	-	17.5	0.5
Brack	2033	KSN	4/96	1000	C	No	7	4813	-	10.8	-
Bradford	2059	KSN	3/94 & 5/96			No	7	2051	-	3.7	3.7
Brannan-Andrus		DCC	6/95		C	91-Yes No	24	13000	5.5	7.4	2.7
Canal Ranch	2086	MBK	7/95	100/500			8	2996	-	9.6	-
Coney	2117	KSN	4/90	500		No	7	935	-	5.4	-
Deadhorse	2111	KSN	3/86	500		No	3	211	-	2.6	-
Empire	2029	MBK				No	9	3430	-	9.5	1
Fabian	773		7/89			No		6530	-	18.8	-
Fay	2113	KSN	3/90	500		No	3	100	-	1.6	-
Glanville	1002	KSN					0	7000	-	13	-
Jones, Lower	2038	Rosten				No	6	5994	-	8.8	-
Jones, Upper	2039					No	5	6259	-	9.3	-
King	2044	MBK				No	8	3260	-	9.1	-
Little Mandeville	2118	KSN	11/87	500		Not Insp.	4	376	-	4.5	-

NAME	RD #	ENG	DATE OF INTERVAL IN		PAPER/ COMPUTER	MEET		CORPS DATABASE	AREA (ac)	PROJECT		NON-PROJECT		DIRECT AGREEMENT LEVEES (in miles)
			LAST SURVEY	FEET		HMP	HMP			LEVEES (in miles)	LEVEES (in miles)	LEVEES (in miles)	LEVEES (in miles)	
Mandeville	2027	KSN	7/86 & 3/94	500		No		13	5300	-		11.9		2.4
McCronhack- Williamson	2110	MBK						13	1654	-		8.8		-
McDonald	2030	KSN	94	500		No		9	6145	-		12.4		1.3
Medford	2041	KSN	8/86 & 4/91	500		Not Insp.		3	1219	-		5.6		0.3
New Hope	341	Hanson	2/90	1000	P/C	No		10	9300	-		18.6		-
Orwood	2024	Rosten				No		6	4138	-		6.3		-
Palm	2036	Rosten				No		8	2436	-		7.5		-
Pierson	551		8/88			No		0	8920	6.8		-		-
Prospect	1667	MBK						0	1228	2.9		7.1		-
Quimby	2090	KSN	4/90 & 6/91	500	C	Not Insp.		6	769	-		7		-
Rindge	2037	MBK				Yes		10	6834	-		13		2.8
Roberts, Lower	684	Rosten			P/C	No		16	10600	-		10.8		5.2
Roberts, Middle	524							10	13687	6.1		6.1		-
Roberts, Upper	544	KSN	5/85	500	C			7	8260	10.6		4.4		-
Sherman	341	Hanson	11/89 & 6/95	1000	P/C	No		18	9937	9.7		3.4		6.4
Stark	2089	KSN	10/94	1000	C	Yes		5	734	2.8		0.7		-
Staten	38	Hanson	3/90	1000	P/C			15	9173	-		25.4		-

NAME	RD #	ENG	DATE OF INTERVAL IN LAST FEET	PAPER/ COMPUTER	MEET HMP	CORPS DATABASE	AREA (ac)	PROJECT LEVEES (in miles)	NON-PROJECT LEVEES (in miles)	DIRECT AGREEMENT LEVEES (in miles)
			SURVEY							
Terminous	548	Rosten			No	9	10470	-	16.1	4.9
Twitchell	1601	KSN	4/89 & 4/94	C	No	12	3516	2.5	4.6	-
Tyler	563	KSN	3/89 & 6/90	C	Yes	11	8583	12.2	10.7	-
Union East	1	KSN	9/91	C	No	13	9622	1	13	-
Union West	2	KSN	10/91	C	No	8	12580	-	16.2	-
Venice	2023	KSN	8/85	C	No	7	3220	-	9.7	2.6
Victoria	2040	KSN	4/90	C	No	15	7250	-	15.1	-
Webb	2026	MBK	8/93		No	12	5490	-	11.3	1.6
Winter	2122	MBK				0	453	-	4.8	
Woodward	2072	Rosten			No	8	1822	-	8.8	-

